



#5

## SEQUENCE LISTING

<110> Lyngstadaas, Stale Petter  
Gestrelus, Stina

<120> Matrix Protein Compositions for Dentin  
Regeneration

<130> P24775US01

<140> 09/885,725

<141> 2001-06-19

<150> PA200000959

<151> 2000-06-20

<150> PA200001665

<151> 2000-11-08

<160> 6

<170> FastSEQ for Windows Version 4.0

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| Met | Ser | Ala | Ser | Lys | Ile | Pro | Leu | Phe | Lys | Met | Lys | Gly | Leu | Leu | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Phe | Leu | Ser | Leu | Val | Lys | Met | Ser | Leu | Ala | Val | Pro | Ala | Phe | Pro | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gln | Pro | Gly | Ala | Gln | Gly | Met | Ala | Pro | Pro | Gly | Met | Ala | Ser | Leu | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Glu | Thr | Met | Arg | Gln | Leu | Gly | Ser | Leu | Gln | Gly | Leu | Asn | Ala | Leu |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Gln | Tyr | Ser | Arg | Leu | Gly | Phe | Gly | Lys | Ala | Leu | Asn | Ser | Leu | Trp |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Leu | His | Gly | Leu | Leu | Pro | Pro | His | Asn | Ser | Phe | Pro | Trp | Ile | Gly | Pro |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Arg | Glu | His | Glu | Thr | Gln | Gln | Pro | Ser | Leu | Gln | Pro | His | Gln | Pro | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Lys | Pro | Phe | Leu | Gln | Pro | Thr | Ala | Ala | Thr | Gly | Val | Gln | Val | Thr |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Pro | Gln | Lys | Pro | Gly | Pro | His | Pro | Pro | Met | His | Pro | Gly | Gln | Leu | Pro |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Gln | Glu | Gly | Glu | Leu | Ile | Ala | Pro | Asp | Glu | Pro | Gln | Val | Ala | Pro |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     |     | 160 |
| Ser | Glu | Asn | Pro | Pro | Thr | Pro | Glu | Val | Pro | Ile | Met | Asp | Phe | Ala | Asp |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Pro | Gln | Phe | Pro | Thr | Val | Phe | Gln | Ile | Ala | His | Ser | Leu | Ser | Arg | Gly |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Pro | Met | Ala | His | Asn | Lys | Val | Pro | Thr | Phe | Tyr | Pro | Gly | Met | Phe | Tyr |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Met | Ser | Tyr | Gly | Ala | Asn | Gln | Leu | Asn | Ala | Pro | Gly | Arg | Ile | Gly | Phe |
|     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Met | Ser | Ser | Glu | Glu | Met | Pro | Gly | Glu | Arg | Gly | Ser | Pro | Met | Ala | Tyr |
| 225 |     |     |     |     | 230 |     |     |     | 235 |     |     |     |     |     | 240 |
| Gly | Thr | Leu | Phe | Pro | Gly | Tyr | Gly | Gly | Phe | Arg | Gln | Thr | Leu | Arg | Gly |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |
| Leu | Asn | Gln | Asn | Ser | Pro | Lys | Gly | Gly | Asp | Phe | Thr | Val | Glu | Val | Asp |  |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |
| Ser | Pro | Val | Ser | Val | Thr | Lys | Gly | Pro | Glu | Lys | Gly | Glu | Gly | Pro | Glu |  |  |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |  |
| Gly | Ser | Pro | Leu | Gln | Glu | Ala | Ser | Pro | Asp | Lys | Gly | Glu | Asn | Pro | Ala |  |  |
|     | 290 |     |     |     |     | 295 |     |     |     | 300 |     |     |     |     |     |  |  |
| Leu | Leu | Ser | Gln | Ile | Ala | Pro | Gly | Ala | His | Ala | Gly | Leu | Leu | Ala | Phe |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |
| Pro | Asn | Asp | His | Ile | Pro | Asn | Met | Ala | Arg | Gly | Pro | Ala | Gly | Gln | Arg |  |  |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |
| Leu | Leu | Gly | Val | Thr | Pro | Ala | Ala | Ala | Asp | Pro | Leu | Ile | Thr | Pro | Glu |  |  |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |  |
| Leu | Ala | Glu | Val | Tyr | Glu | Thr | Tyr | Gly | Ala | Asp | Val | Thr | Thr | Pro | Leu |  |  |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |  |
| Gly | Asp | Gly | Glu | Ala | Thr | Met | Asp | Ile | Thr | Met | Ser | Pro | Asp | Thr | Gln |  |  |
|     | 370 |     |     |     |     | 375 |     |     |     | 380 |     |     |     |     |     |  |  |
| Gln | Pro | Pro | Met | Pro | Gly | Asn | Lys | Val | His | Gln | Pro | Gln | Val | His | Asn |  |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |  |
| Ala | Trp | Arg | Phe | Gln | Glu | Pro |     |     |     |     |     |     |     |     |     |  |  |
|     |     |     |     | 405 |     |     |     |     |     |     |     |     |     |     |     |  |  |

<210> 2  
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 <212> PRT  
 <213> rat

|         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| <400> 2 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| Met     | Ser | Ala | Ser | Lys | Ile | Pro | Leu | Phe | Lys | Met | Lys | Gly | Leu | Leu | Leu |  |  |
| 1       |     |     |     | 5   |     |     |     |     | 10  |     |     |     | 15  |     |     |  |  |
| Phe     | Leu | Ser | Leu | Val | Lys | Met | Ser | Leu | Ala | Val | Pro | Ala | Phe | Pro | Gln |  |  |
|         |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |  |
| Gln     | Pro | Gly | Ala | Gln | Gly | Met | Ala | Pro | Pro | Gly | Met | Ala | Ser | Leu | Ser |  |  |
|         | 35  |     |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |  |  |
| Leu     | Glu | Thr | Met | Arg | Gln | Leu | Gly | Ser | Leu | Gln | Gly | Leu | Asn | Ala | Leu |  |  |
|         | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |  |
| Ser     | Gln | Tyr | Ser | Arg | Leu | Gly | Phe | Gly | Lys | Ala | Leu | Asn | Ser | Leu | Trp |  |  |
| 65      |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |  |
| Leu     | His | Gly | Leu | Leu | Pro | Pro | His | Asn | Ser | Phe | Pro | Trp | Ile | Gly | Pro |  |  |
|         |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |  |
| Arg     | Glu | His | Glu | Thr | Gln | Gln | Pro | Ser | Leu | Gln | Pro | His | Gln | Pro | Gly |  |  |
|         |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |  |
| Leu     | Lys | Pro | Phe | Leu | Gln | Pro | Thr | Ala | Ala | Thr | Gly | Val | Gln | Val | Thr |  |  |
|         | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |  |  |
| Pro     | Gln | Lys | Pro | Gly | Pro | His | Pro | Pro | Met | His | Pro | Gly | Gln | Leu | Pro |  |  |
|         | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |  |
| Leu     | Gln | Glu | Gly | Glu | Leu | Ile | Ala | Pro | Asp | Glu | Pro | Gln | Val | Ala | Pro |  |  |
| 145     |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |  |
| Ser     | Glu | Asn | Pro | Pro | Thr | Pro | Glu | Val | Pro | Ile | Met | Asp | Phe | Ala | Asp |  |  |
|         |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |  |
| Pro     | Gln | Phe | Pro | Thr | Val | Phe | Gln | Ile | Ala | His | Ser | Leu | Ser | Arg | Gly |  |  |
|         |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |  |
| Pro     | Met | Ala | His | Asn | Lys | Val | Pro | Thr | Phe | Tyr | Pro | Gly | Met | Phe | Tyr |  |  |
|         | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |  |  |
| Met     | Ser | Tyr | Gly | Ala | Asn | Gln | Leu | Asn | Ala | Pro | Gly | Arg | Ile | Gly | Phe |  |  |
|         | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |  |
| Met     | Ser | Ser | Glu | Glu | Met | Pro | Gly | Glu | Arg | Gly | Ser | Pro | Met | Ala | Tyr |  |  |
| 225     |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |
| Gly     | Thr | Leu | Phe | Pro | Gly | Tyr | Gly | Gly | Phe | Arg | Gln | Thr | Leu | Arg | Gly |  |  |
|         |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Leu | Asn | Gln | Asn | Ser | Pro | Lys | Gly | Gly | Asp | Phe | Thr | Val | Glu | Val | Asp |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |  |
| Ser | Pro | Val | Ser | Val | Thr | Lys | Gly | Pro | Glu | Lys | Gly | Glu | Gly | Pro | Glu |  |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |  |
| Gly | Ser | Pro | Leu | Gln | Glu | Ala | Ser | Pro | Asp | Lys | Gly | Glu | Asn | Pro | Ala |  |
|     |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |
| Leu | Leu | Ser | Gln | Ile | Ala | Pro | Gly | Ala | His | Ala | Gly | Leu | Leu | Ala | Phe |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |
| Pro | Asn | Asp | His | Ile | Pro | Asn | Met | Ala | Arg | Gly | Pro | Ala | Gly | Gln | Arg |  |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |  |
| Leu | Leu | Gly | Val | Thr | Pro | Ala | Ala | Ala | Asp | Pro | Leu | Ile | Thr | Pro | Glu |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |
| Leu | Ala | Glu | Val | Tyr | Glu | Thr | Tyr | Gly | Ala | Asp | Val | Thr | Thr | Pro | Leu |  |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |
| Gly | Asp | Gly | Glu | Ala | Thr | Met | Asp | Ile | Thr | Met | Ser | Pro | Asp | Thr | Gln |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |
| Gln | Pro | Pro | Met | Pro | Gly | Asn | Lys | Val | His | Gln | Pro | Gln | Val | His | Asn |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |
| Ala | Trp | Arg | Phe | Gln | Glu | Pro |     |     |     |     |     |     |     |     |     |  |
|     |     |     |     | 405 |     |     |     |     |     |     |     |     |     |     |     |  |

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 <213> rat

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 Val Thr Lys Gly  
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